

# THE TECH

VOL. XXXI. NO. 105

BOSTON, MASS., WEDNESDAY, FEBRUARY 21, 1912

PRICE TWO CENTS

## SOPHOMORES WIN BASKETBALL SERIES

Second Year Men Champions By Easy Margin—Tirrell Stars for Sophs.

In a rather snappy contest in the Gym yesterday afternoon the Sophomore basketball team cinched the series with the Freshman five, with a score of 26 to 11. The first year men put up the best fight in this game out of the two played, and at the end of the first half, when the score stood 14 to 11 in the Sophs' favor, they stood a chance of coming out on top. The usual team work of the Sophomores and their steady playing was responsible for their victory.

The Freshmen had three new men playing for them, and although they are individual stars they did not show the proper team work which is needed for a victory. Morse, who is a substitute on the first team, played left guard; Dalton, a second team player, held the position of right guard, and O'Brien, the versatile athlete, filled the position of right forward. O'Brien, the star of the Freshman and football teams, has not been playing with the basketball team, and although he is fairly good at this game, did not show up very well, and had a number of fouls called on him.

Tirrell played his usual fast game at forward, and was greatly responsible for piling up the score against the Freshmen, having caged four of the eleven baskets from the floor. Comber was also there with the goods that counted, and at all times had his eye on the ball. He had four free tries for goals and made the best of all of them, as well as dropping three in from the floor. His work on the floor was fast and snappy at all times, and his passing was quite accurate. Left guard was well taken care of by Williams, who showed some fine exhibitions of dribbling, and who was (Continued on Page 3, Col. 2.)

## ARCHITECTS ELECT.

J. P. Constable Becomes President—Sophomores Admitted.

At a special meeting of the Naval Architecture Society, which took place Tuesday afternoon, for the purpose of electing officers and discussing general business matters, the following list of men were chosen for the coming year: J. P. Constable, 1913, President; S. Y. Chen, 1912, Vice-President; H. B. Cady, 1913, Secretary and Treasurer.

Aside from the election of officers it was decided to admit all Sophomores taking Course XIII to provisional membership.

## HARE AND HOUNDS CLUB.

A meeting of the Hare and Hounds Club will be held in Room A of the Union this noon, at 1 o'clock, and all members are expected to be present. This meeting is held every year for the purpose of electing the officers for the ensuing year, and also for the purpose of starting the spring runs, which will begin as soon as the weather has moderated sufficiently.

What are you going to do with that whole day's vacation?

## RELAY CHANCES ARE MUCH BETTER NOW

Races at Providence Thursday Will Be Last Chance to Win.

Thursday will finally settle the fate of the relay teams for this season. The teams are as good as the Institute has ever had in the field, but the other schools have ones that are a great deal faster than the usual run of college teams, and as yet we have not shown up very well. However, the men still have another chance when they meet Harvard in two dual races in Providence on the holiday.

Our one-mile team has been defeated in both of the races that they were entered. In the Dartmouth race at the B. A. A. games, about two weeks ago, Munch tripped and fell and lost so much that the others could not regain the lead. The time for the race was very slow, in fact much slower than the Tech teams have run for several years, and as the times made in the trials show the men up better, it seems as if they will come into their own and turn tables Thursday. The Harvard team is a very fast one, however, and made good time at the B. A. A. In the race at the Columbia Relay Carnival Saturday night the Tech team was severely handicapped. The accommodations were very poor, and in fact there was no place for them to get rubbed or have any treatment before the race. Thompson, who took Munch's place on the team, ran first and lost considerable ground. The other men ran well, but with five (Continued on Page 2, Col. 2.)

## OPTION TWO ARCHITECTS.

Society to Hold Meeting Friday—Tech Grad Speaks.

On Friday evening, February 23rd, the Architectural Engineering Society will hold one of its smokers in 42 Pierce, when it is hoped that a large majority of the members can be present.

The subject, "The Relation of the Course IV, Option 2, man to the Engineering Profession," will be the most interesting one and will be discussed by a man who is eminently well fitted to talk, Mr. John D. V. Beekman, 1900, of Whidden & Company, contractors, of Boston. The talk will be of a very practical nature and there will doubtless be many things of great value which the young architectural engineer can gain by attending.

Tickets are now being sold for thirty-five cents by several of the society members and can be purchased at any time after 2 o'clock in Pierce Building. The meeting will start at 7.30 o'clock.

## ELECTORAL BALLOTS.

The 1914 Technique Electoral Committee ballots which were reprinted are now out again in their correct form and may be obtained at the Cage. All ballots should be signed with the voter's name and left before next Friday at the Cage, addressed to the "Ballot Committee, 1914." No man's vote will be counted unless his class dues are paid up to date. Dues may be enclosed with the ballot.

## MR. W. W. DODGE GIVES HINTS TO INVENTORS

In Talk to M. E. Society He Outlined Methods of Patenting.

Yesterday afternoon, in 11 Engineering B, Mr. W. W. Dodge gave a very instructive talk on patents before the M. E. Society. He commenced by giving a history of the subject, its various forms during the middle ages, and its development. England passed the first patent laws as early as 849 A.D., and its system of patent laws has been the standard for all countries.

He stated that patent laws are primarily enacted to induce invention and discovery, but the privileges have been abused very often. According to the definition by our law a patent must be something new, it must not have been in use for more than two years in any country and must not infringe on any other patents. The Constitution gives Congress the power to pass patent laws, and the first one was passed in 1790. An invention must be disclosed and published as soon as it is patented, in order that the public may be able to use it after the patent expires, which is after a period of fourteen years.

Mr. Dodge then formulated the steps that an inventor should take when he wants something patented.

First he should put down in writing a clear description, accompanied by sketches or drawings, and then have a friend sign that it has been explained to him, and also the date of explanation.

Secondly, the invention should be tested for practicability.

Thirdly, a patent attorney should be consulted who makes a rigid examination to see if the invention infringes upon others.

Fourthly, the claims should be formulated as clear as possible, for the patent covers just what the claims cover.

Then it is sent to Washington, where it is given to one of forty-two departments. At the head of each is an expert who examines it, first to see if it is an infringement on other patents, and then to see if it is practicable, and then it is accepted. If a man then claims infringements the evidence is submitted to the examiner, who gives a decision. It may then be appealed to a board and then to a commissioner, then again to a board and later to the Court of Appeals. After this a bill of equity may be filed and the case may be tried out in Federal Courts. The objection to this maze of "red tape" is, that the further one goes the less the men know of chemistry, mechanism, etc., and the case becomes a mere battle of wits between attorneys. Mr. Dodge pointed out and decried these proceedings, and hoped that there would be a change in the near future.

He concluded by relating stories of freak inventions and thus ended a very practical talk.

The work of building Yale's new concrete stadium will begin early this spring.

No paper Thursday! Say, perhaps the Staff isn't glad that George was born?

## NEW ASSOCIATION OF SOUTHEASTERN ALUMNI

President Maclaurin to Be Present at Opening Meeting.

Next Saturday ushers in a new era for Technology in the Southeastern States, for on that day the Alumni of that section come together for the purpose of organizing a new association, the Southeastern Technology Association, with its headquarters in Birmingham, Alabama. In order to be present at this occasion President Maclaurin will leave here tomorrow night and will arrive in Birmingham Saturday afternoon.

There is a large number of Technology men in that neighborhood, so that the formation of this new association will give a fine opportunity for them to get together and advance the interests of the Institute. Among the graduates directly interested in the new organization is one with whom most of the undergraduates are familiar, and that is Maurice Scharff.

When interviewed regarding the association, President Maclaurin said: "There is a great commercial and industrial awakening now taking place in the Southeastern States. The demand for highly trained men is increasing and the Institute ought to contribute a large share toward this. We feel it a matter of great importance to form an association under such conditions so we may be kept in touch with the real needs of that section of the country."

## 1915 TEAM MANAGERS.

At a meeting of the Executive Committee of the Freshman class yesterday noon the elections of the managers of the teams which will compete in the Field Day events next Fall were held. The new football manager is C. W. Fry of East Orange, N. J. N. S. Weil, Jr., of Dallas, Texas, the present manager of the 1915 track team, was elected manager for next year. E. P. Turner, Jr., who also comes from Dallas, was chosen to manage the baseball team. The relay team is to be managed by W. B. Spencer of Medford, who is a member of the 1915 track team. The manager of the tug-of-war team will be C. A. Blodgett, of Portland, Me., one of the Freshman wrestlers.

## CALENDAR.

In Charge of S. E. Taylor, 1914.

Wednesday, February 21.  
1.00—Hare and Hounds Club Meeting—Union.

Thursday, February 22.  
No TECH today.  
Exercises Suspended.

Second Basketball Team vs. Boylston Five—Roxbury Y. M. C. A.  
One and Two-Mile Relay Teams against Harvard at Providence.

Friday, February 23.  
4.00—Orchestra Rehearsal—Union.  
4.15—Glee Club Rehearsal—Union.  
4.15—Mandolin Club Rehearsal—26 Lowell.

Saturday, February 24.  
Second Basketball Team vs. Dartmouth Freshmen—Hanover.  
8.00—Cosmopolitan Dance—Hotel Tuilleries.

ALL OUT FOR THE CHOURS TRIALS--4 P. M.

# THE TECH

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WEDNESDAY, FEB. 21, 1912

In Charge of Friday Issue.

EDITOR—F. C. Foote, 1915.  
Associates—L. H. Graham, 1914.

Show the Show posters.

FOR CONSIDERATION.

The Boston Post yesterday editorially commented on the foundation of a Harvard Club, and in the course of the article said: "Harvard Alumni are numerous enough to maintain a clubhouse of their own in Boston, which the sons of no other college are quite able to do." Can it be that the Post has never heard of the Technology Club?

With a membership of seven hundred, about eight per cent. of whom are undergraduates, the Technology Club has been a remarkably successful organization since its inception in 1896. It has always been a great factor in Institute life, gathering as it does the old students of this city and the Alumni members of the Faculty. Its annual reception to men from other colleges is one of the important functions of the year. Above all, it is a center for native and visiting former students.

The surprising part of the matter is that the club was forgotten by the Post. Its intention is not so much to provide an elaborate clubhouse, but rather a club home where Institute men may meet. We believe it is accomplishing this purpose, but apparently, unlike Billy McGee, "its fame has not spread abroad through the nations." We trust it may be better known in the future.

#### E. E. SOCIETY.

On Wednesday afternoon, February 28th, the Electrical Engineering Society will conduct another trip through the General Electric Company's factory at West Lynn. Seventeen men have signed up already as intending to take the trip, and any others who wish to go should sign up immediately, as the number of men who may go is limited.

The men will meet at 1:30 on that date in the Electrical Library in the Lowell Building.

Fifty-five men trying for places on the management of Tech Show sounds like it might be a prosperous organization for some years to come.

#### VARIATION OF THE SUN'S RADIATION

Lecture Before Society of Arts  
By Mr. C. G. Abbot of  
Smithsonian.

Last evening President Charles R. Cross of the Society of Arts presided at their meeting held in Huntington Hall, at 8 o'clock.

Before introducing the speaker of the evening the President reviewed the work of the Smithsonian Institute, whose Astro-Physical Laboratory is in Mr. Abbot's charge, and also the results obtained by his predecessor, Professor Langley, of later aerodrome fame. Professor Langley's work as an astro-physicist, or physical astronomer, was valuable for his investigations of light beyond the visible red rays by means of a bolometer. This instrument is a thermometer depending upon the variation of resistance in a wire as its temperature rises and falls, which can be constructed so delicately that it will record temperature variations of one hundred-millionth of a degree Centigrade. Usually a less delicate indication is required. It has been by the use of this and another rather similar instrument that Mr. Abbot has obtained his determinations of the variations in the intensity of the sun's radiation.

Mr. Abbot explained the construction and use by himself and colleagues of the instruments on Mount Wilson, Mount Whitney, and, last summer, in Algeria. By early observations the Institute determined the radiation constant to lie between 1.92 and 1.95, values considerably smaller than had previously been supposed.

But as the observations became more frequent more or less regular variations were noticed, and it now seems probable that these variations have a period varying from two to seven days. If the computations of the results of last summer's Algerian expedition turn out as seems reasonable to expect, corresponding to results obtained in America simultaneously, it will be possible to forecast temperature conditions more accurately on the earth than is now possible. The variation is as high as ten per cent.

#### RELAY CHANCES.

(Continued from Page 1, Col. 2.) teams on the track it was hard to gain a large loss and they did not finish well up.

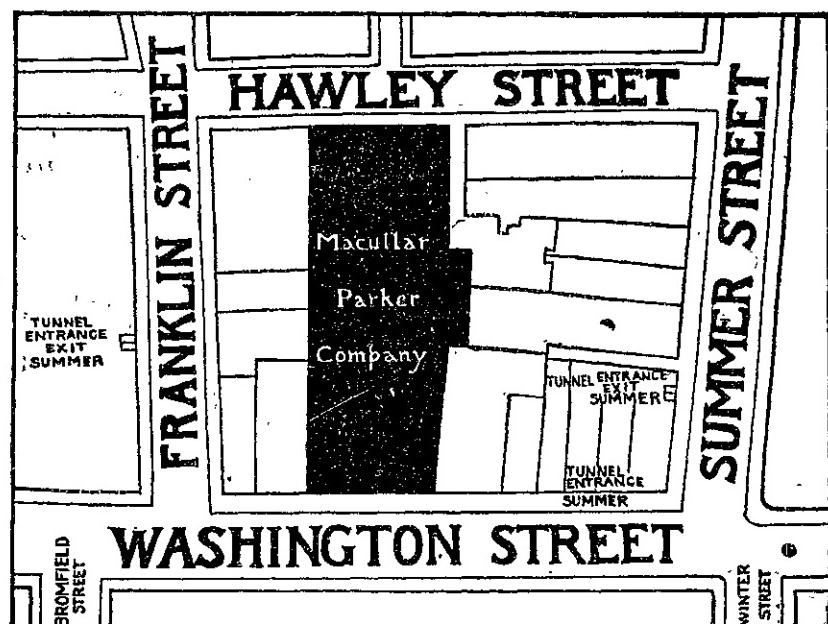
The two-mile team is in excellent condition, and as Harvard has a fine team the race should be a dandy. At New York the team ran well, but as in the case of the shorter distance team, the first man, who was Palmer, and a new man at the game, lost too much for the others to gain, and the team did not place. The Harvard two-mile team is probably one of the best that the college from across the river has ever put out. Preble, an old man at the half-mile game, and Withington, of cross-country fame, make a combination that will be difficult to catch.

The teams will have a better chance to run at this meet as only two teams will be on the track at one time, and if one man does lose the lead the others will have a much better chance of catching up. The men that will go with the team to Providence are, for the mile team: Thompson, Guething, Bolton and Benson; for the two-mile, Marceau, Bylund, Palmer and Germaine. It is also probable that Barry, Wilson and Wilkins will go for the open events, as will some of the other men that are out for the track team.

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They are erecting at this place a reinforced concrete factory building, five stories in height and covering an area sixty by two hundred feet. This work is of particular interest on account of the use by the contractors of the Ransome unit system of construction, for which they are the New England licensees.

By the Ransome system all members for the proposed building except the floor slabs are cast in forms on the ground and set in place by a derrick. The floor slab, which is cast in place in the usual manner, ties the other parts together. In addition, the erected members are grouted at their joints, the whole structure being thus made monolithic.

It is claimed for this method of construction that a saving of fifteen per cent. in cost is effected, that a greatly reduced construction force is needed, that they can be employed to better advantage, and that the work can be subjected to closer and better inspection than is otherwise possible. It is expected that it will be possible to see all of the several processes in operation this afternoon.

Those caring to go may report at the work at 2 P.M. with the Boston Society. Take an East Boston Tunnel car at Scollay Square to the Maverick Square outlet, and two blocks east to Porter street and two blocks south to the work. By taking a Chelsea street car one can get off at Porter street and save one-half the walk.

It is hoped that all members of the Civil Engineering Society who can will take advantage of this opportunity to inspect this comparatively new method of construction which, if it bears out the claims of the inventors, marks a distinct advance in the reinforced concrete building art.

**SOPHS WIN.**

(Continued from Page 1, Col. 1.)  
well able to locate the basket.

Dalton, who was temporarily playing for the Freshmen, played a star game and showed some fast playing, having his eye out for the ball at every opportunity. Neumann, the captain, played an aggressive game at center and kept his men fighting all the time.

The majority of the scoring was done in the first ten minutes of play, and from then on the number of points did not change till the last ten minutes of the contest. The Sophomores almost doubled their score in the second half while the Freshmen could not locate the basket. The game was loosely played at times and was also rough in spots. The team work of the Sophomores is what brought them out on top, whereas if the Freshmen could have played together the score might have been different.

The summary:  
1914. 1915.  
Comber (Capt.) 1. f.....r. b. Dalton  
Tirrell, r. f.....l. b. Morse  
Ruoff, c. ....c. Neumann (Capt.)  
Williams, I. g.....r. f. O'Brien  
Bryant, Fox, r. g.....l. f. Scully  
Score: 1914, 26; 1915, 11.

Goals made by: Tirrell 4, Comber and Williams 3, Bryant 1, Neumann and Dalton 2, O'Brien 1. Fouls scored by: Comber 4, Morse 1.

Time of halves, 20 minutes. Referee, Freedman. Timer, Ott. Scorer, Hudson.



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